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IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF:

Kazuhisa KASHIHARA, et al.

SERIAL NO.: 09/741,824

FILED: DECEMBER 22, 2000

FOR: ARRAYED WAVEGUIDE GRATING TYPE OPTICAL
MULTIPLEXER/DEMULTIPLEXER AND OPTICAL
WAVEGUIDE CIRCUIT

:

: EXAMINER: unassigned

:

: GROUP ART UNIT: 2874

Pre.
#5/a
marsha
3/14/03

PRELIMINARY AMENDMENT

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

Prior to an examination on the merits, please amend the above-identified patent
application as follows:

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FEB 12 2002
TECHNOLOGY CENTER 2000

IN THE SPECIFICATION

Please replace three paragraphs at page 3, line 10 through page 4, line 11 with the
following text:

After traveling through the arrayed waveguide 14, the light reaches the second slab
waveguide 15 and then is condensed at the output end of the second slab waveguide 15.

R1
Because of the preset differences in lengths between adjacent channel waveguides 14a of the
arrayed waveguide 14, light beams after traveling through the arrayed waveguide 14 have
different phases from one another. The phase fronts of many light beams from the arrayed
waveguide 14 are tilted in accordance with this difference and the each position where the

02/11/2002 JBA/INAH 00000129 09741824
01 FC:102 420.00 DP
02 FC:103 450.00 DP